

ABSTRACT OF THE DISCLOSURE

A method for producing dispersed metal particles on a substrate and the compositions produced is disclosed. A method for producing the particles comprises exposing an organometallic and a particulate substrate to supercritical or near
5 supercritical fluid under conditions to form a mixture of the fluid and the organometallic, allowing the mixture to remain in contact with the substrate for a time sufficient to deposit dispersed organometallic onto the substrate, venting the mixture, thereby adsorbing the organometallic onto the substrate, and reducing the dispersed organometallic to dispersed metal particles with a reducing agent.

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